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DATE MAILED: 11/06/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/473,740	12/28/1999	HONGJIANG SONG	INTL-0327-US	1399
. 7:	590 11/06/2003		EXAM	INER
TIMOTHY N TROP			VO, DON NGUYEN	
	R HU & MILES P C REEWAY, STE 100		ART UNIT	PAPER NUMBER
HOUSTON, T			2631	/7

Please find below and/or attached an Office communication concerning this application or proceeding.

,	Application No.	Applicant(s)	
•	09/473,740	SONG, HONGJIANG	
Office Action Summary	Examiner	Art Unit	
	DON N VO	2631	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet w	vith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a y within the statutory minimum of the will apply and will expire SIX (6) MC, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).	1.
1) Responsive to communication(s) filed on 24 J	lune 2003 .		
2a) ☐ This action is FINAL . 2b) ☑ Th	is action is non-final.		
Since this application is in condition for allowated closed in accordance with the practice under Disposition of Claims	ance except for formal ma Ex parte Quayle, 1935 C	atters, prosecution as to the merits in .D. 11, 453 O.G. 213.	s
4) Claim(s) 1-20 is/are pending in the application	ı .		
4a) Of the above claim(s) is/are withdraw	wn from consideration.		•
5) Claim(s) is/are allowed.		•	
6)⊠ Claim(s) <u>1-20</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or	r election requirement.		
Application Papers			
9) The specification is objected to by the Examine			
10)☐ The drawing(s) filed on is/are: a)☐ accept			
Applicant may not request that any objection to the			
11) The proposed drawing correction filed on		disapproved by the Examiner.	
If approved, corrected drawings are required in rep	•		
12) The oath or declaration is objected to by the Exp	aminer.		
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C.	§ 119(a)-(d) or (t).	
a) All b) Some * c) None of:			
1. Certified copies of the priority documents			
2. Certified copies of the priority documents			
3. ☐ Copies of the certified copies of the prior application from the International But* See the attached detailed Office action for a list of the certified prior and the prior application for a list of the certified copies of the prior application for a list of the certified copies of the prior application for a list of the certified copies of the prior application for a prior application for a list of the certified copies of the prior application for a list of the prior application from the the pri	reau (PCT Rule 17.2(a)).	_	
14) Acknowledgment is made of a claim for domestic	c priority under 35 U.S.C	§ 119(e) (to a provisional application	on).
a) ☐ The translation of the foreign language pro15)☐ Acknowledgment is made of a claim for domesti			
Attachment(s)			
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)	

Application/Control Number: 09/473,740

Art Unit: 2631

DETAILED ACTION

Acknowledgment

1. In view of the Appeal Brief filed on 6/24/2003, PROSECUTION IS HEREBY REOPENED. A new ground of rejection is set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
 - (2) request reinstatement of the appeal.

If reinstatement of the appeal is requested, such request must be accompanied by a supplemental appeal brief, but no new amendments, affidavits (37 CFR 1.130, 1.131 or 1.132) or other evidence are permitted. See 37 CFR 1.193(b)(2).

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-8 and 15-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over admitted prior art (fig. 1) of instant application in view of Lang (5,956,377; newly cited art).

Application/Control Number: 09/473,740

Art Unit: 2631

As shown in figure 1, the admitted prior art teaches a repeater circuit comprising a data recovery circuit (16) and synchronization detection circuit (18). See also page 1, line 1 to page 2, line 10 of the instant application. The admitted prior art fails to teach detecting whether some of the bits indicate a synchronization field during the buffering the bits. However, Lang teaches, as shown in figure 3 and abstract, detecting whether some of the incoming bits indicate a synchronization field during the buffering the incoming bits in order to minimize the delay in processing the signal. See also column 2, lines 31-51. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the repeater circuit of the admitted prior art by employing the teaching of Lang so that to improve the delay time of repeating the data since both buffering bits and detecting synchronization field are performed concurrently.

3. Claims 9-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over the admitted prior art (fig. 1) of instant application in view of Lang (5,956,377) as applied to claims 1-8 and 15-20 above, and further in view of Banker et al (5,497,187; art of record), Andersson et al (5,671,249; art of record) or Julyan (5,790,610; art of record).

Both the admitted prior art and Lang teach all subject matter claimed except for using the output of the data recovery circuit to apply to the transmitter to form an outgoing data. However, Banker (fig. 4C), Andersson (figs. 3 and 4) or Julyan (figs. 1, 2 and 7) teaches using the output of the data recovery circuit to

Page 4

apply to the transmitter to form an outgoing data. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the repeater of the admitted prior art by employing the teachings of Banker, Andersson or Julyan so that the delay for processing the signal received from the receiving end to the transmitting end of the repeater can be reduced.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to DON N VO whose telephone number is (703) 305-4885. The examiner can normally be reached on 8:30AM-5:00PM, Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MOHAMMAD GHAYOUR can be reached on (703) 306-3034. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3800.

DON N VO Primary Examiner Art Unit 2631